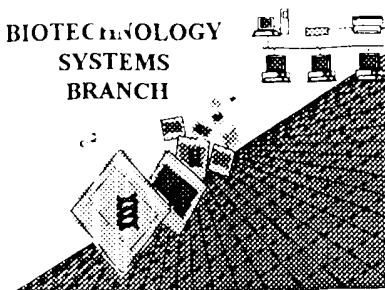


0521

BIOTECHNOLOGY
SYSTEMS
BRANCH



RAW SEQUENCE LISTING
ERROR REPORT

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number: 09/923,844

Source: OLP

Date Processed by STIC: 8/16/2001

THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.

PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:

- 1) INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT, WITH A NOTICE TO COMPLY or,
- 2) TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY

FOR CRF SUBMISSION QUESTIONS, PLEASE CONTACT MARK SPENCER, 703-308-4212.

FOR SEQUENCE RULES INTERPRETATION, PLEASE CONTACT ROBERT WAX, 703-308-4216.

PATENTIN 2.1 e-mail help: patin21help@uspto.gov or phone 703-306-4119 (R. Wax)

PATENTIN 3.0 e-mail help: patin3help@uspto.gov or phone 703-306-4119 (R. Wax)

TO REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE **CHECKER VERSION 3.0 PROGRAM**, ACCESSIBLE THROUGH THE U.S. PATENT AND TRADEMARK OFFICE WEBSITE. SEE BELOW:

Checker Version 3.0

The Checker Version 3.0 application is a state-of-the-art Windows based software program employing a logical and intuitive user-interface to check whether a sequence listing is in compliance with format and content rules. Checker Version 3.0 works for sequence listings generated for the original version of 37 CFR §§1.821 – 1.825 effective October 1, 1990 (old rules) and the revised version (new rules) effective July 1, 1998 as well as World Intellectual Property Organization (WIPO) Standard ST 25.

Checker Version 3.0 replaces the previous DOS-based version of Checker, and is Y2K-compliant. Checker allows public users to check sequence listings in Computer Readable form (CRF) before submitting them to the United States Patent and Trademark Office (USPTO). Use of Checker prior to filing the sequence listing is expected to result in fewer errored sequence listings, thus saving time and money.

Checker Version 3.0 can be down loaded from the USPTO website at the following address:

<http://www.uspto.gov/web/offices/pac/checker>

OIPE

RAW SEQUENCE LISTING

DATE: 08/16/2001

PATENT APPLICATION: US/09/923,844

TIME: 12:54:02

Input Set : A:\Seqlist.txt

Output Set: N:\CRF3\08162001\I923844.raw

4 <110> APPLICANT: Bao, Zhongmeng
 5 Lu, Guihua
 7 <120> TITLE OF INVENTION: Sclerotinia-inducible Genes and
 8 Promoters and Their Uses
 10 <130> FILE REFERENCE: 35718/234631
 C--> 12 <140> CURRENT APPLICATION NUMBER: US/09/923,844
 C--> 12 <141> CURRENT FILING DATE: 2001-08-07
 12 <150> PRIOR APPLICATION NUMBER: US 60/224,603
 13 <151> PRIOR FILING DATE: 2000-08-11
 15 <160> NUMBER OF SEQ ID NOS: 20
 17 <170> SOFTWARE: FastSEQ for Windows Version 4.0

Does Not Comply
 Correct Diskette Needed

ERRORED SEQUENCES

128 <210> SEQ ID NO: 2
 129 <211> LENGTH: 371
 130 <212> TYPE: PRT
 131 <213> ORGANISM: Helianthus annuus
 133 <400> SEQUENCE: 2
 134 Met Glu Phe Leu Lys Ala Pro Thr Leu Leu Leu Val Ile Phe Ser Leu
 135 1 5 10 15
 136 Ala Ile Cys Ser Pro Ile Ser Ala Gln Asn Lys Gly Gly Tyr Trp Pro
 137 20 25 30
 138 Ser Trp Ala Gln Asp Phe Leu Pro Pro Ser Asn Ile Gln Thr Ala Tyr
 139 35 40 45
 140 Phe Thr His Val Tyr Tyr Ala Phe Leu Ser Pro Asn Asn Val Thr Phe
 141 50 55 60
 142 Gln Phe Asp Val His Arg Thr Thr Ala Ser Ala Leu Asn Ser Phe Asn
 143 65 70 75 80
 144 Thr Ala Leu His Gly Lys Asn Pro Pro Val Lys Thr Leu Phe Ser Ile
 145 85 90 95
 146 Gly Gly Gly Ser Ala Gly Val Lys Gln Leu Phe Ser Lys Leu Ala Ser
 147 100 105 110
 148 Ser Pro Gly Ser Arg Ala Ala Phe Ile Arg Ser Thr Ile Gln Val Ala
 149 115 120 125
 150 Arg Asn Tyr Tyr Phe Asp Gly Ala Asp Leu Asp Trp Glu Tyr Pro Glu
 151 130 135 140
 152 Thr Gln Thr Asp Met Asn Asn Phe Gly Leu Leu Asp Glu Trp Arg
 153 145 150 155 160
 154 Val Ala Val Asn Asn Glu Ala Thr Ser Thr Gly Lys Pro Arg Leu Leu
 155 165 170 175
 156 Leu Ser Ala Ala Thr Arg His Glu Pro Glu Val Arg Asp Asn Gly Val
 157 180 185 190
 158 Ala Lys Tyr Pro Val Ala Ser Ile Asn Lys Asn Leu Asp Gly Ile Asn
 159 195 200 205
 160 Ala Met Cys Tyr Asp Tyr His Gly Pro Trp Thr Pro Asp Ala Thr Gly

see
 p. 4

RAW SEQUENCE LISTING

DATE: 08/16/2001

PATENT APPLICATION: US/09/923,844

TIME: 12:54:02

Input Set : A:\Seqlist.txt

Output Set: N:\CRF3\08162001\I923844.raw

```

161      210      215      220
162 Ala Pro Ala Ala Leu Tyr Asn Pro Asn Gly Ser Leu Ser Thr Ser Asn
163 225      230      235      240
164 Gly Leu Gln Ser Trp Ile Ser Ala Gly Ile Gln Arg Gln Lys Leu Val
165      245      250      255
166 Met Gly Met Pro Leu Tyr Gly Trp Thr Trp Lys Leu Lys Asn Pro Ser
167      260      265      270
168 Val Asn Gly Ile Gly Ala Pro Ala Ala Gly Ile Gly Pro Gly Asn Glu
169      275      280      285
170 Gly Ala Met Leu Tyr Ser Glu Val Gln Gln Phe Asn Ala Gln Asn Asn
171      290      295      300
172 Ala Arg Val Val Tyr Asp Thr Gln Thr Val Ser Tyr Tyr Ser Tyr Ser
173 305      310      315      320
174 Gly Thr Thr Trp Ile Gly Tyr Asp Asp Val Asn Ser Val Gln Arg Lys
175      325      330      335
176 Val Gln Tyr Ala Lys Ser Leu Asn Ile Gly Gly Tyr Phe Phe Trp Thr
E--> 177
      340      345      350      ↑Ala Val Gly Asp Gln Asp Trp Lys
221 <210> SEQ ID NO: 4
222 <211> LENGTH: 97
223 <212> TYPE: PRT
224 <213> ORGANISM: Helianthus annuus
226 <400> SEQUENCE: 4
227 Met Lys Ala Pro Thr Met Ile Cys Phe Leu Val Ala Val Ile Ala Ala
228 1      5      10      15
229 Met Met Val Phe Met Gly Gln Leu Pro Ala Ala Thr Ala Val Thr Cys
230      20      25      30
231 Asn Tyr Met Glu Leu Val Pro Cys Ala Gly Ala Ile Ser Ser Ser Gln
232      35      40      45
233 Pro Pro Ser Gly Ser Cys Cys Ser Lys Val Arg Glu Gln Arg Pro Cys
234      50      55      60
235 Phe Cys Gly Tyr Leu Arg Asn Pro Ser Leu Arg Gln Phe Val Ser Pro
E--> 236
65      70      75      80↑Ala Ala Ala Gln Lys Ile Ala Ser
238 <210> SEQ ID NO: 5
239 <211> LENGTH: 849
240 <212> TYPE: DNA
241 <213> ORGANISM: Helianthus annuus
243 <400> SEQUENCE: 5
244 cgtcgtttcg ctgacagggg gataaaagat aatatcatga tcaccattca tcacgcctaa      60
245 aattcctcct cttagtcagt tgtgaatatt ttgtaattat tgtgtagact ataactgtta      120
246 tgtctttgca tatatttctc cttgtaatta gccttgattt ccagtatata atgatataca      180
247 aactctctaa tcaagcagag agagttccct gaattacatc accgctgccca ttttagtcca      240
248 ctaagttaac ttcatccatt aattttgtta acgtgaaagg aaattcgggc attttctatg      300
249 gccgaattgc ccttgtagtt cacaaaatta catataaaac caccgaattg ccgttctcgt      360
250 taacagaaaa aatgaatgaa gttaacccag tggactaaaa tggcaacgat gaaaccattt      420
251 tggatccaca ggcgaaaaat gaaacttttg gactaaactg gcgaaaaata aaacttttgg      480
252 actaaactac atgaactaaa atggctttta actaaatttt aataaccggt ttaattttat      540
253 aaagagaaaa taaactttac aaaaagcatt cttgtcttat tttataaaga ttaaagttac      600
254 ttgcacgttc aaacatatgt tactagatga atcaagagtc atgtacaact ctatgtttag      660
255 ataaggttac tagatgaata tgagtttagtc atctataagt ctatacttag aaagttcaaa      720

```

RAW SEQUENCE LISTING

DATE: 08/16/2001

PATENT APPLICATION: US/09/923,844

TIME: 12:54:02

Input Set : A:\Seqlist.txt

Output Set: N:\CRF3\08162001\I923844.raw

E--> 256

gtcaatgatt tgtattgaat actgtttgta gttgaattca taaaagcttt gaatactgtt 780 ttagttgaa ttcataaaag

258 <210> SEQ ID NO: 6

259 <211> LENGTH: 1089

260 <212> TYPE: DNA

261 <213> ORGANISM: Helianthus annuus

263 <400> SEQUENCE: 6

264 atcctactac ctcaaacttt atctaattca tcaacacaaac ggaggttttg ttatatattgt 60

265 ttggtccatc caaaaggaca aaaatgcact tcatcttaac aaaaaaaaaa aaaaaaaaaa 120

266 ctaagttagt gatttggatg aaaatgacaa acaaaaggac aaaaatgcac ttcattctaa 180

267 caaaaaaaaa actgagttag taatttggat gaaaacgaca aaaaagaca aacctgaaag 240

268 attcaaatgc acaaaaaaat tattttggat gaaacacgca tatatgatca aacccaagag 300

269 acgattttta tattttactc gaaattttta aagaagttaa tattagacag gaatcatgtt 360

270 agagacatat gccaaacctt ttaattttct aagttcaaac aaaaatctat tattttttcc 420

271 aaaccacagc tataatttat gtaattttat ctctataaat ggacaaagaa taaaagtttt 480

272 ctacaaacgg taacaacaag gaagctaccc tcgttttgaa gatagttaag acaataattc 540

273 aactactttc taactacttt tctcacaaga cttaattttc cacacacatc tttatgacta 600

274 aatctaccat atgtgatggg ccagtcaccc attaatatgt cttcaaccac aagtcggtta 660

275 accggaccat cagccacttg gccacgggag cagcttagtg gaaaccgggg gtgcacaacc 720

276 cctctaattg ttcggttaga agtgcaaaat ttacgatttt tcgtccgaaa attttcgccc 780

277 accagaactt ttagtcaaac ttcgccactg cactttgccc aatgttctat taaggttttt 840

278 attttatttt tattattttt tataacgatt ccaaaaattt tttggacata tacatctgac 900

279 atgcgttata ttagatata gaatttgaac tcgcaacctt ttaattatac gatacatcac 960

E--> 280

cacctagatt tgaattctca ttgggcccaa tgggtctataa ataatgcacc aaccctcag 1020 ttttaaacac caccactaca

09/923,844

4

<210> 2
 <211> 371
 <212> PRT
 <213> Helianthus annuus

<400> 2

Met Glu Phe Leu Lys Ala Pro Thr Leu Leu Leu Val Ile Phe Ser Leu 1
 5 10 15 ^{hard} Ala Ile Cys Ser Pro Ile Ser Ala each
 Gln Asn Lys Gly Gly Tyr Trp Pro 20 25 line
 30 Ser Trp Ala Gln Asp Phe Leu Pro Pro Ser Asn Ile Gln Thr Ala Tyr
 35 40 45 Phe Thr His Val Tyr Tyr arg
 Ala Phe Leu Ser Pro Asn Asn Val Thr Phe 50 55 after
 60 Gln Phe Asp Val His Arg Thr Thr Ala Ser Ala Leu Asn Ser Phe
 Asn65 70 75 80 Thr Ala Leu last amino
 His Gly Lys Asn Pro Pro Val Lys Thr Leu Phe Ser Ile 85 acid
 90 95 Gly Gly Gly Ser Ala Gly Val Lys Gln Leu Phe Ser Lys
 Leu Ala Ser 100 105 110 Ser number
 Pro Gly Ser Arg Ala Ala Phe Ile Arg Ser Thr Ile Gln Val Ala 115
 120 125 Arg Asn Tyr Tyr Phe Asp Gly Ala Asp Leu Asp on each
 Trp Glu Tyr Pro Glu 130 135 140 line
 Thr Gln Thr Asp Met Asn Asn Phe Gly Leu Leu Leu Asp Glu Trp Arg145
 150 155 160 Val Ala Val Asn Asn Glu Ala Thr Ser
 Thr Gly Lys Pro Arg Leu Leu 165 170
 175 Leu Ser Ala Ala Thr Arg His Glu Pro Glu Val Arg Asp Asn Gly Val
 180 185 190 Ala Lys Tyr Pro Val Ala Ser
 Ile Asn Lys Asn Leu Asp Gly Ile Asn 195 200
 205 Ala Met Cys Tyr Asp Tyr His Gly Pro Trp Thr Pro Asp Ala Thr Gly
 210 215 220 Ala Pro Ala Ala Leu
 Tyr Asn Pro Asn Gly Ser Leu Ser Thr Ser Asn225 230
 235 240 Gly Leu Gln Ser Trp Ile Ser Ala Gly Ile Gln Arg Gln Lys
 Leu Val 245 250 255 Met Gly
 Met Pro Leu Tyr Gly Trp Thr Trp Lys Leu Lys Asn Pro Ser 260
 265 270 Val Asn Gly Ile Gly Ala Pro Ala Ala Gly Ile Gly
 Pro Gly Asn Glu 275 280 285
 Gly Ala Met Leu Tyr Ser Glu Val Gln Gln Phe Asn Ala Gln Asn Asn 290
 295 300 Ala Arg Val Val Tyr Asp Thr Gln Thr Val
 Ser Tyr Tyr Ser Tyr Ser305 310 315
 320 Gly Thr Thr Trp Ile Gly Tyr Asp Asp Val Asn Ser Val Gln Arg Lys
 325 330 335 Val Gln Tyr Ala Lys Ser Leu Asn
 Ile Gly Gly Tyr Phe Phe Trp Thr 340 345
 350 Ala Val Gly Asp Gln Asp Trp Lys Ile Ser Arg Leu Ala Ser Gln Thr
 355 360 365 Trp Thr Ala 370

Please make similar edits to

segs. 4-6, too - same
 format error

VERIFICATION SUMMARY

PATENT APPLICATION: US/09/923,844

DATE: 08/16/2001

TIME: 12:54:03

Input Set : A:\Seqlist.txt

Output Set: N:\CRF3\08162001\I923844.raw

L:12 M:270 C: Current Application Number differs, Replaced Current Application No
L:12 M:271 C: Current Filing Date differs, Replaced Current Filing Date
L:177 M:252 E: No. of Seq. differs, <211>LENGTH:Input:371 Found:352 SEQ:2
L:236 M:252 E: No. of Seq. differs, <211>LENGTH:Input:97 Found:80 SEQ:4
L:256 M:334 W: (2) Invalid Amino Acid in Coding Region, NUMBER OF INVALID KEYS:13
L:256 M:252 E: No. of Seq. differs, <211>LENGTH:Input:849 Found:720 SEQ:5
L:280 M:334 W: (2) Invalid Amino Acid in Coding Region, NUMBER OF INVALID KEYS:13
L:280 M:252 E: No. of Seq. differs, <211>LENGTH:Input:1089 Found:960 SEQ:6